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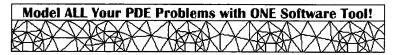
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## Improved performance of quantum well infrared photodetectors using random scattering optical coupling

G. Sarusi, B. F. Levine, S. J. Pearton, K. M. S. Bandara, and R. E. Leibenguth AT&T Bell Laboratories, Murray Hill, New Jersey 07974

(Received 15 October 1993; accepted 1 December 1993)

We demonstrate that a random scattering reflector on top of a quantum well infrared photodetector increases the optical coupling (i.e., increases the infrared absorption, responsivity, and detectivity) by an order of magnitude compared with a one-dimensional grating or 45° angle of incidence geometry. Applied Physics Letters is copyrighted by The American Institute of Physics.

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